

# Memo

**To: Shelly Nellesen, Iowa DNR LRP**

**From: Mike Fisher, Impact7G on behalf of City of Maquoketa**

**Date: November 22, 2019**

**CC: Gerald Smith, City Manager; Frank Ellenz, Public Works Director**

**Re: Former Clinton Engine Site Schedule of Activity from Iowa DNR 9/26/19 Letter of Requested Actions**

Groundwater Assessment	Start	Finish
1. Deeper monitoring wells will be installed in the vicinity of MW-2R to investigate chlorinated solvents at depths deeper than 30 feet.	04/01/20	05/01/20
2. Dependent on a detailed well survey and the presence of an existing drinking water wells, chlorinated solvent contamination in groundwater will be further delineated to the protected groundwater standard to the northeast and southeast.	TBD	TBD
3. Vertical delineation of contamination will occur via bedrock wells in areas where delineation was hampered by the presence of bedrock.	04/01/20	05/01/20
4. A follow-up report will denote the depth of boring terminations at locations where water was not encountered (e.g., BH-23, BH-27, BH-31).	1/1/20	1/30/20
5. Once the plume is further defined including vertical delineation through bedrock and nested wells, a follow-up report will propose a monitoring network that will be used to monitor plume dynamics.	05/01/20	06/01/20
6. A receptor survey to include receptors associated with drinking and non-drinking water wells, sanitary sewer mains and service lines, plastic water lines, and gasketed water lines will be completed. The static water level and concentration of first encountered groundwater will be considered when determining which plastic water lines are at risk.	12/9/19	1/30/20
7. Future reports will include groundwater flow maps.	12/9/19	1/9/20
8. A plume map of first encountered groundwater concentrations (contoured to the groundwater screening level) will be developed to identify an area of vapor intrusion concern for each chemical of concern (COC).	12/9/19	1/9/20
9. Once areas of concern are determined, soil gas sampling for COCs will be conducted in public right-of-way to determine vapor intrusion potential in residential and non-residential structures.	3/15/20	5/15/20
10. Desktop list of drinking and non-drinking wells within known plume.	Complete	Complete
Vapor Investigation at Clinton Engine Museum		
1. First round of post-remediation vapor intrusion sampling conducted at the Jackson County Historical Society Clinton Engines Museum.	12/3/19	1/20/20
2. Second round of post-remediation vapor intrusion sampling at the Jackson County Historical Society Clinton Engines Museum	6/15/20	7/30/20
3. The City will notify the Iowa DNR of any changes to the proposed workplan schedule noting the first round of post-remediation sampling is scheduled in November 2019 provided JCHS completed remedial actions.	Complete	Complete
Toluene Free Product		
1. A Free Product Recovery Assessment Report for toluene in MW-2R will be completed by January 15, 2020.	12/2/19	1/15/20